

§ 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 19-0036.

Amendments

In the Claims:

Please cancel claims 23-116 without prejudice or disclaimer.

Kindly add the following new claims 117-179:

C/ 117. (New) An isolated polynucleotide probe comprising 150 contiguous nucleotides of SEQ ID NO:1.

118. (New) The polynucleotide of claim 117, further comprising a heterologous polynucleotide.

119. (New) A vector comprising the polynucleotide of claim 117.

120. (New) A host cell comprising the polynucleotide of claim 117.

121. (New) The host cell of claim 120, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

Cont
C1

122. (New) An isolated polynucleotide which encodes a polypeptide consisting of at least 30 contiguous amino acids of SEQ ID NO:2.

123. (New) The polynucleotide of claim 122, ligated to a heterologous polynucleotide.

124. (New) A vector comprising the polynucleotide of claim 122.

125. (New) A host cell comprising the polynucleotide of claim 122.

126. (New) The host cell of claim 125, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

127. (New) A method of producing a polypeptide consisting of at least 30 contiguous amino acids of SEQ ID NO:2, comprising culturing the host cell of claim 126 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

128. (New) The polynucleotide of claim 122, which encodes a polypeptide consisting of at least 50 contiguous amino acids of SEQ ID NO:2.

129. (New) The polynucleotide of claim 128, ligated to a heterologous polynucleotide.

130. (New) A vector comprising the polynucleotide of claim 128.

131. (New) A host cell comprising the polynucleotide of claim 128.

132. (New) The host cell of claim 131, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

133. (New) A method of producing a polypeptide consisting of at least 50 contiguous amino acids of SEQ ID NO:2, comprising culturing the host cell of claim 132 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

134. (New) An isolated polynucleotide comprising a nucleic acid which encodes a polypeptide at least 90% identical to amino acids 2 to 342 of SEQ ID NO:2, wherein said polypeptide binds an antibody having specificity for the polypeptide of SEQ ID NO:2.

135. (New) The polynucleotide of claim 134, wherein said polypeptide is at least 95% identical to amino acids 2 to 342 of SEQ ID NO:2.

136. (New) The polynucleotide of claim 134, further comprising a heterologous polynucleotide.

137. (New) A vector comprising the polynucleotide of claim 134.

14
Cont
Cl

138. (New) A host cell comprising the polynucleotide of claim 134.

139. (New) The host cell of claim 138, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

140. (New) A method of producing a polypeptide at least 90% identical to amino acids 2 to 342 of SEQ ID NO:2, comprising culturing the host cell of claim 139 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

141. (New) An isolated polynucleotide comprising a nucleic acid which encodes amino acids 2 to 342 of SEQ ID NO:2.

142. (New) The polynucleotide of claim 141, wherein said nucleic acid comprises nucleotides 229-1251 of SEQ ID NO:1.

143. (New) The polynucleotide of claim 141, further comprising a heterologous polynucleotide.

144. (New) A vector comprising the polynucleotide of claim 141.

145. (New) A host cell comprising the polynucleotide of claim 141.

Cont
21

146. (New) The host cell of claim 145, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

147. (New) A method of producing a polypeptide comprising amino acids 2 to 342 of SEQ ID NO:2, comprising culturing the host cell of claim 146 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

148. (New) An isolated polynucleotide comprising a nucleic acid which encodes a polypeptide at least 90% identical to amino acids 1 to 342 of SEQ ID NO:2, wherein said polypeptide binds an antibody having specificity for the polypeptide of SEQ ID NO:2.

149. (New) The polynucleotide of claim 148, wherein said polypeptide is at least 95% identical to amino acids 1 to 342 of SEQ ID NO:2.

150. (New) The polynucleotide of claim 148, further comprising a heterologous polynucleotide.

151. (New) A vector comprising the polynucleotide of claim 148.

152. (New) A host cell comprising the polynucleotide of claim 148.

153. (New) The host cell of claim 152, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

Cont
C1

154. (New) A method of producing a polypeptide at least 90% identical to amino acids 1 to 342 of SEQ ID NO:2, comprising culturing the host cell of claim 153 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

155. (New) An isolated polynucleotide comprising a nucleic acid which encodes amino acids 1 to 342 of SEQ ID NO:2.

156. (New) The polynucleotide of claim 155, wherein said nucleic acid comprises nucleotides 226-1251 of SEQ ID NO:1.

157. (New) The polynucleotide of claim 155, further comprising a heterologous polynucleotide.

158. (New) A vector comprising the polynucleotide of claim 155.

159. (New) A host cell comprising the polynucleotide of claim 155.

160. (New) The host cell of claim 159, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

161. (New) A method of producing a polypeptide comprising amino acids 1 to 342 of SEQ ID NO:2, comprising culturing the host cell of claim 160 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

Get
CI

162. (New) An isolated polynucleotide which encodes a polypeptide consisting of at least 30 contiguous amino acids encoded by the cDNA contained in ATCC deposit No. 209003.

163. (New) The polynucleotide of claim 162, ligated to a heterologous polynucleotide.

164. (New) A vector comprising the polynucleotide of claim 162.

165. (New) A host cell comprising the polynucleotide of claim 162.

166. (New) The host cell of claim 165, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

167. (New) A method of producing a polypeptide consisting of at least 30 contiguous amino acids encoded by the cDNA contained in ATCC deposit No. 209003, comprising culturing the host cell of claim 166 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

168. (New) The polynucleotide of claim 162, wherein said polynucleotide encodes a polypeptide consisting of at least 50 contiguous amino acids encoded by the cDNA contained in ATCC deposit No. 209003.

Ant
CI

169. (New) The polynucleotide of claim 168, ligated to a heterologous polynucleotide.

170. (New) A vector comprising the polynucleotide of claim 168.

171. (New) A host cell comprising the polynucleotide of claim 168.

172. (New) The host cell of claim 171, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

173. (New) A method of producing a polypeptide consisting of at least 50 contiguous amino acids encoded by the cDNA contained in ATCC deposit No. 209003, comprising culturing the host cell of claim 172 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

174. (New) An isolated polynucleotide comprising a nucleic acid which encodes the polypeptide encoded by the human cDNA of ATCC deposit No.209003.

175. (New) The polynucleotide of claim 174, further comprising a heterologous polynucleotide.

176. (New) A vector comprising the polynucleotide of claim 174.

Art
C

177. (New) A host cell comprising the polynucleotide of claim 174.

178. (New) The host cell of claim 177, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

179. (New) A method of producing a polypeptide encoded by the cDNA contained in ATCC deposit No. 209003, comprising culturing the host cell of claim 178 under conditions such that said polypeptide is expressed, and recovering said polypeptide.
